

SAFETY DATA SHEET (SDS)

READY MIX CONCRETE

125 Bridge Avenue, Sunbury PA 17801
 520 St Mary Street, Lewisburg PA 17837
 244 Clemens Road, Watsontown PA 17777
 381 S. Eaton Street, Berwick, PA 18603
 205 Universal Road, Selinsgrove, PA 17870
 185 Quarry Road, Coal Twp, PA 17866

Section 1. Identification

Product Identifier:	Ready Mix Concrete	
Other means of identification:	Concrete, Ready Mix Concrete, Concrete Ready Mix, Portland Cement Concrete, Ready Mix Grout, Permeable Concrete, Shotcrete, Gunite, Colored Concrete, Flowable Fill, Roller Compacted Concrete, Fiber Reinforced Concrete, Self Consolidating Concrete	
Identified Uses:	Concrete is widely used as a structural component in many construction applications.	
Supplier's details:	Central Builders Supply Company 125 Bridge Avenue, PO Box 152, Sunbury, PA 17801 570-286-6461	
Emergency Telephone Number:	570-286-6460 7:30 ma - 4:00 pm M-F 800-222-1222	Poison Help Line: 1-

Section 2. Hazards Identification

GHS Classification:	Skin Corrosion/Irritation: Category 1C Carcinogenicity - Category 1A Eye Damage/Irritation: Category 1 Sensitization - Skin: Category 1 Specific Target Organ Toxicity (Single Exposure)(Respiratory Tract Irritation): Category 3		
Signal Word	Danger		
Hazard Pictograms:			
Hazard Statements:	Cause severe skin burns and serious eye damage. May cause cancer (inhalation) Causes severe eye irritation May cause an allergic skin reaction May cause damage to organs (lung) through prolonged or repeated exposure		
Precautionary Statements:			
Prevention:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash any exposed body parts thoroughly after handling. Avoid breathing dust. Contaminated clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.		
Response:	If exposed or concerned: Get medical advice/attention if irritation or rash occurs. If on skin: Take off immediately all contaminated clothing. Rinse/wash skin with plenty of water/shower. Wash contaminated clothing before reuse. If in eyes: Rinse continuously with water for several minutes. Remove contact lenses, if present and easy to do.		
Storage/Disposal:	Restrict or control access to ready mix concrete (store locked up). Dispose of contents/container in accordance with local/regional/national/international regulations.		
Hazards not otherwise classified	Not applicable.		
Supplemental Information:	Respirable Crystalline Silica (RCS) may cause cancer. Wet, freshly mixed concrete is not expected to pose respiratory concern. Ready Mix Concrete is comprised of cement, additives and a naturally occurring mineral complex that contains varying quantities of quartz (crystalline silica). When set/cured Ready Mix Concrete is subjected to various natural or mechanical forces it may produce small particles (dust) which may contain respirable crystalline silica (particles less an 10 micrometers in aerodynamic diameter). Repeated inhalation of respirable crystalline silica (quartz) may cause lung cancer according to IARC and NTP.; ACGIH states that is a suspected cause of cancer. Other forms of RCS (e.g., tridymite and cristobalite) may also be present or formed under certain industrial processes.		

Section 3: Composition/Information on Ingredients

Substance/mixture	Mixture (Portland Cement, Coarse Aggregate, Fine Aggregate, Water, Admixtures)	
CAS Number	Not applicable	
Product Code	Not applicable	
Ingredient name (Structure of Ready Mix Concrete may contain the following in some concentration ranges):	%	CAS Number
Quartz (Aggregates)	0 - 80	14808-60-7
Limestone (Aggregates)	0 - 80	131 7-65-3
Portland Cement	0 - 20	65997-15-1
Water	10-May	7732-18-5
Slag Cement	0 - 15	N/A
Fly Ash	0 - 10	68131-74-8

Any concentration shown as a range is to protect confidentiality or is due to batch variation. Chemical admixtures may be present in ranges of less than 1%.

Individual composition of hazardous constituents may vary between types/different mix designs of Ready Mix Concrete.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First-aid Measures

Inhalation:	Seek medical help if coughing or other symptoms persist. Inhalation of large amounts of Ready Mix Concrete requires immediate medical attention. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If the individual is not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.
Skin Contact:	Get medical attention immediately. Heavy exposure to Ready Mixed Concrete dust, wet concrete, or associated water requires prompt attention. Quickly remove contaminated clothing, shoes, and leather goods such as watchbands and belts. Quickly wash or brush away Ready Mixed Concrete. Immediately wash thoroughly with gently flowing water and non-abrasive pH neutral soap. Seek medical attention for rashes, burns, irritation, dermatitis and prolonged unprotected exposures to wet concrete, concrete mixtures or liquids from wet concrete. Burns should be treated as caustic burns. Ready Mixed Concrete may cause skin burns with little warning. Discomfort or pain cannot be relied upon to alert a person to a serious injury. You may not feel pain or the severity of the burn until hours after the exposure. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure.
Eye Contact:	Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Chemical burns must be treated promptly by a physician.
Ingestion:	Get medical attention immediately. Call a poison center or physician. Have victim rinse mouth thoroughly with water. Do not induce vomiting unless directed to do so by medical personnel. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop giving water if the exposed person feels sick as vomiting may be dangerous. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

Important symptoms/effects, acute and delayed:	
Inhalation:	May cause respiratory irritation. Adverse symptoms may include the following: respiratory tract irritation, coughing.
Skin contact:	May cause severe burns. May cause an allergic skin reaction. Adverse symptoms may include the following: pain or irritation, redness, blistering may occur.
Eye Contact:	May cause serious eye damage. Adverse symptoms may include the following: pain, watering, redness.
Ingestion:	May cause burns to mouth, throat and stomach. Adverse symptoms may include the following: stomach pains.
Indication of immediate medical attention and special treatment, if necessary	
If inhaled:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Prolonged and repeated inhalation of respirable crystalline silica-containing dust in excess of appropriate exposure limits has caused silicosis, fibrosis or scar tissue formations in the lungs. Call a poison center or physician if you feel unwell.
If on skin:	Wash with plenty of pH neutral soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation or rash occurs; get medical attention. Ready mix concrete may contain trace amounts of hexavalent chromium. Hexavalent chromium is associated with allergic skin reactions which may appear as contact dermatitis and skin ulcerations. Persons already sensitized may react to their first exposure to concrete. Other individuals may develop allergic dermatitis after repeated exposure to concrete. The symptoms of allergic reactions may include reddening, irritation, and eczematous rashes. Drying, thickening, and cracking of the skin and nails may also occur.
If in eyes:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Exposure to dust may cause immediate or delayed irritation or inflammation. Eye contact by larger amount of dry powder or splashes of wet Ready Mixed Concrete may cause effects ranging from moderate eye irritation to chemical burns or blindness. Immediately call a poison center or physician.
If ingested:	Irritating to mouth, throat and stomach. Ingestion of large quantities may cause severe irritation and chemical burns of the mouth, throat, stomach and digestive tract. Do not ingest Ready Mixed Concrete. Get immediate medical attention.
Notes to physician:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Protection of first-aiders:	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wear gloves when removing contaminated clothing.

Section 5. Fire-fighting Measures

Suitable extinguishing media:	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media:	None known.
Specific hazards arising from the product:	No specific fire or explosion hazard.
Hazardous thermal decomposition products may include:	Carbon dioxide, carbon monoxide, sulfur oxides, metal oxide/oxides.

Special protective equipment and precautions for fire-fighters:	Fire-fighters should wear appropriate protective equipment.
--	---

Section 6. Accidental Release Measures

For non-emergency personnel:	Personnel involved with the handling of wet unhardened concrete should take steps to avoid contact with the eyes and skin, through the use of gloves and suitable clothing as described in Section 8. Silica-containing respirable dust particles may be generated by crushing, cutting, grinding, or drilling hardened concrete or concrete products, and should always be avoided. Follow protective controls defined in Section 8 when handling these products. When cutting, grinding, crushing or drilling hardened concrete, use local exhaust or general dilution ventilation or other suppression methods to maintain dust levels below exposure limits.
For emergency responders:	For personal protective clothing and equipment requirements, please see Section 8.

Environmental precautions:	Wet unhardened concrete should be recycled or allowed to harden and disposed. Do not wash concrete down sewage and drainage systems or into bodies of water (e.g. lakes, streams, wetlands, etc.).
Methods and materials for containment and cleaning up spills:	Place spilled material into a contained area and allow wet unhardened concrete to harden and dispose in a landfill as common solid waste. Follow applicable Federal, State and local regulations for disposal. Uncontaminated ready mixed concrete is neither a listed nor a characteristic hazardous waste under designations by the USEPA or USDOT.
USDOT Class: Uncontaminated ready mixed concrete does not meet any hazardous material class definition found in Title 49 Code of Federal Regulations Part 173.	

Section 7. Handling and Storage

Precautions for safe handling:	When required use appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure by obtaining and following special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe dust. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities:	A key to using the product safely requires the user to recognize that Ready Mixed Concrete reacts chemically with water to produce calcium hydroxide which can cause severe chemical burns. Every attempt should be made to avoid skin and eye contact with concrete. Do not get Ready Mixed Concrete inside boots, shoes or gloves. Do not allow wet, saturated clothing to remain against the skin. Promptly remove clothing and shoes that are dusty or wet with concrete mixtures. Launder/clean clothing and shoes before reuse.

Section 8. Exposure Controls/Personal Protection

Ingredient Name:	Exposure limits:		
	OSHA PEL:	ACGIH TLV:	MSHA PEL:
Particulates not otherwise classified (CAS SEQ250)	PEL:5 mg/m ³ Form: Respirable Fraction	TWA 3 mg/m ³ Form: Respirable Particles	PEL: 5 mg/m ³ Form: Respirable Fraction
	PEL: 15 mg/m ³ Form: Total Dust	TWA: 10 mg/m ³ Form: Inhalable particles	PEL 10 mg/m ³ Form: Total Dust
Portland Cement:	PEL:5 mg/m ³ Form: Respirable Fraction	TWA: 1mg/m ³ Form: Respirable Dust	PEL: 5 mg/m ³ Form: Respirable Fraction
	PEL: 15 mg/m ³ Form: Total Dust		PEL 10 mg/m ³ Form: Total Dust
Crystalline Silica (Quartz) (CAS 14808-60-7)	TWA: .05 mg/m ³ Form: Respirable	TWA 0.025 mg/m ³ Form: Respirable Fraction	TWA: 10/(%SiO ₂ +2) in mg/m ³

*Each of these ingredients may have crystalline silica (quartz) as a component. The percent of silica varies greatly from product to product and also within the same product. Silica exposure may occur when respirable dust is present. Dust is not present in freshly mixed unhardened Ready Mixed Concrete.

Admixtures may be present in quantities of less than 1%.

Appropriate engineering controls:	The use of ventilation or other engineering controls may be necessary to maintain airborne levels below any applicable limits. Under normal operations general ventilation should suffice.
Environmental exposure controls:	Use general ventilation, local exhaust and/or wet suppression methods to maintain exposures below allowable exposure limits.

Exposure guidelines:	OSHA PELs, MSHA PELs, and ACGIH TLVs are 8-hour TWA values. Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled. Terms including "Particulates Not Otherwise Specified", "Particulates Not Otherwise Regulated", "Particulates Not Otherwise Specified", and "Inert or Nuisance Due" are often used interchangeably, however, the user should review each agency's terminology for difference in meaning.
Individual protection measures (including Personal Protective Equipment):	
Hygiene measures:	Use good personal hygiene practices. Do not consume or store food in the work area. Wash hands thoroughly before eating, drinking or smoking.
Eye/face protection:	Safety glasses with side shields should be worn as minimum protection from dust. Dust goggles or full face protection should be worn when very dusty conditions are present or are anticipated.
Skin Protection	
Hand Protection	Use alkali resistant gloves to provide hand protection from concrete.
Body Protection	Clothing with long sleeves will provide protection. Waterproof boots high enough to prevent cement from entering should be worn when workers will be standing in wet concrete. Contaminated work clothing should be washed after use.
Other skin protection:	Clothing with long sleeves and long pants should be used to prevent contact with concrete.
Respiratory protection	The need for respiratory protection should be evaluated by a qualified professional. The use of respirators for controlling exposures in excess of the occupational exposure limit must comply with regulatory requirements for medical surveillance, respiratory fit testing, repair and cleaning, and user training. In dust areas, air monitoring for dust and quartz should be conducted regularly. Dust and quartz levels in excess of appropriate exposure limits should be reduced by all feasible engineering controls, including, but not limited to, wet suppression, ventilation, process enclosure, and enclosed employee work stations.

Section 9. Physical and Chemical Properties

Physical State:	Flowable, granular mud like material	Lower and Upper Explosive Flammable	N/A
Color:	Gray	Vapor Pressure:	N/A
Odor:	None	Vapor Density:	N/A
Odor Threshold::	N/A	Relative Density:	Normal Weight Concrete 2.2 to 2.6
pH:	12 - 13 in water	Solubility::	N/A
Melting Point:	Not Applicable	Partition coefficient:	N/A
Boiling point:	Not Applicable	N-octanol/water:	
Flash point:	Not Applicable	Auto-Ignition temperature:	N/A
Burning time::	Not Applicable	Decomposition temperature:	N/A
Burning rate:	Not Applicable	SADT/Viscosity:	N/A
Evaporation rate:	Not Applicable		
Flammability (solid, gas):	No		

Section 10. Stability and Reactivity

Reactivity:	Cementitious materials react slowly with water forming hydrated compounds releasing heat and producing a strong alkaline solution.
Chemical stability:	
Possibility of hazardous reactions:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid:	Keep dry until used. Avoid contact with incompatible compounds
	Reactive or incompatible with the following materials: oxidizing materials, acids, aluminum and ammonium salt. Ready Mixed Concrete is highly alkaline and will react with acids to produce a violent, heat-generating reaction. Toxic gases or vapors may be given off depending on the acid involved. Reacts with acids, aluminum metals and ammonium salts. Aluminum powder and other alkali and alkaline earth elements will react in wet mortar or concrete, liberating hydrogen gas. Limestone ignites on contact with fluorine and is incompatible with acids, alum, ammonium salts, and magnesium. Silica reacts violently with powerful oxidizing agents such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride, and oxygen difluoride yielding possible fire and/or explosions. Silicates dissolve readily in hydrofluoric acid producing a corrosive gas - silicon tetrafluoride.
Hazardous decomposition products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11 Toxicological Information									
Likely routes of exposure:		Dermal contact. Eye contact. Inhalation. Ingestion.							
Symptoms:									
Inhalation:		May cause respiratory irritation. Adverse symptoms may include the following: respiratory tract irritation, coughing.							
Skin Contact:		May cause sever burns. May cause an allergic skin reaction. Adverse symptoms may include the following: Pain or irritation, redness, blistering may occur.							
Eye Contact:		May cause serious eye damage. Adverse symptoms may include the following: pain, watering, redness.							
Ingestion:		May cause burns to mouth, throat and stomach. Adverse symptoms may include the following: stomach pains.							
Delayed and immediate effects:		Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation. If sensitized to hexavalent chromium, a severe allergic dermal reaction may occur when subsequently exposed to very low levels.							
Numerical measures of toxicity:	No data available.								
Ingredient Name:	NPT	IARC	OSHA	MSHA		NIOSH	EPA	ACGIH	
Portland Cement	Known to be a carcinogen	N/A	N/A	N/A		N/A	N/A	A4	
Quartz	Known to be a carcinogen	1	N/A	N/A		N/A	N/A	A2	

Section 12. Ecological Information	
Ecotoxicity:	Only relevant in accidental spillages of fresh unhardened concrete. If it reaches water, it can result in a slight rise in pH. Hardened concrete is inert.
Persistence and degradability:	No data available
Bio accumulative potential:	No data available
Mobility in soil:	No data available
Other adverse effects:	No known significant effects or critical hazards.

Section 13. Disposal Considerations	
If disposing Ready Mixed Concrete, it should be done in accordance with local, regional and national regulations.	
The generation of waste should be avoided or minimized whenever possible	
If disposing this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Process water should not be released to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Landfill should only be considered when recycling is not feasible. This material must be disposed of in a safe manner. Avoid dispersal of spilled material and runoff in waterways, drains and sewers.	

Section 14. Transport Information	
UN number	Not regulated.
Un proper shipping name:	N/A
Transport hazard class(es):	N/A
Packing group:	N/A
Environmental hazards:	None
Transport in bulk:	Annex II MARPOL 73/78 and the IBC Code
Special precautions for users:	It is the responsibility of the transporting entity to follow all applicable laws, regulations and rules regarding the transport of this material.

Section 15. Regulatory**U.S. Federal Regulations:**

OSHA Hazard Communication	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR
TSCA Section 12(b) Export Notification (40 CFR 707, Subpart D):	Not regulated
OSHA Specifically Regulated Substances (29 CFR 1910.1001-	Listed
CERCLA Hazardous Substance List (40 CFR 302.4):	Not Listed
Clean Air Act Section 112(b): Hazardous Air Pollutants (HAPs):	Not regulated
Clean Air Act Section 112(r) Accidental Release Prevention (40 CFR 68.130):	Not regulated
Safe Drinking Water Act (SDWA)	Not regulated

SARA 311/312**Compositions/information on ingredients**

Name	%	Fire Hazard	Sudden release of	Reactive		Immediate (acute)	Delayed (chronic)
Crystalline Silica (Quartz)	>1	No	No	No		No	Yes

SARA 313

	Product Name	CAS number		%
Form R-Report requirements	Crystalline Silica (Quartz)	14808-60-7		Not regulated

WHMIS Classification:	D2A "Materials Causing Other Toxic Effects"	
------------------------------	---	---

Section 16. Other Information

Date of last revision:	6/7/2022
-------------------------------	----------

*** NOTICE TO READER/PRODUCT USER:**

While the information provided in this safety data sheet is believed to provide a useful summary of the hazards of ready mix concrete as it is commonly used, the sheet cannot anticipate and provide all of the information that might be needed in every situation. Inexperienced product users should obtain proper training before using this product. In particular, the data furnished in this sheet do not address hazards that may be posed by other materials mixed with ready mix concrete to produce ready mix concrete products. Users should review other relevant material safety data sheets before working with this ready mix concrete or working on ready mix concrete products.

SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, CONCERNING THE PRODUCT OR THE MERCHANTABILITY OR FITNESS THEREOF FOR ANY PURPOSE OR CONCERNING THE ACCURACY OF ANY INFORMATION PROVIDED BY Central Builders Supply Company, except that the product shall conform to contracted specifications. The information provided herein was believed by Central Builders Supply Company to be accurate at the time of preparation or prepared from sources believed to be reliable, but it is the responsibility of the user to investigate and understand other pertinent sources of information to comply with all laws and procedures applicable to the safe handling and use of product and to determine the suitability of the product for its intended use. Buyer's exclusive remedy shall be for damages and no claim of any kind, whether as to product delivered or for non-delivery of product, and whether based on contract, breach of warranty, negligence, or otherwise shall be greater in amount than the purchase price of the quantity of product in respect of which damages are claimed. In no event shall Seller be liable for incidental or consequential damages, whether Buyer's claim is based on contract, breach of warranty, negligence or otherwise.